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Principles of Operating Systems

Tutorial Section 01
MS-160
Tue/Thu 11-11:50

About...

- Your TA (me)
 - Daniel Medeiros Nunes de Castro
 - Ph.D. Student (Supervisor: Dr. John Aycock)
 - Research interest: System security
 - Malware, intrusion detection, emulation, etc...
 - Brazilian (3 years in Canada/Calgary)
 - First language: Portuguese
 - If you don't understand me, please, let me know!

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Principles of Operating Systems

Tutorial Section 02
MS-176
Tue/Thu 16-16:50

About...

- Tutorial sessions
 - General structure
 - Announcements
 - Content
 - Practice

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 - If something is unclear, please ASK!
 - Questions are always welcome
 - If I don't know, we'll find the answer!

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About...

- Tutorial sessions
 - No Office Hours
 - Preference for contact: [Piazza](#)
 - Email: dmncastr@ucalgary.ca
 - Please, put CPSC-457 in the subject
 - If really necessary, contact me to schedule an appointment
 - Slides and exercises will be available later at the course wiki ([tutorial page](#))

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Becoming Subversives (Or... Using Apache Subversion/SVN)



SVN Repositories

- Stores one or more projects
 - Directory Structure: Trunk, Branches, Tags
- Repository organization
 - Recommended: each project with its own structure
 - An alternative: each project as “subproject”, with a folder within each folder (trunk, branches, tag)

Apache Subversion (SVN)

- Software versioning and revision control
- Open source (<http://subversion.apache.org>)
- Global version
 - in opposed to version for each file (e.g., CVS)
- Commits are atomic operations
- History of file operations (move, copy, delete)

SVN Repositories

- Repository Access
 -  Local or Network FS - [file://path](#)
 - WebDAV - [http://host/path](#) or [https://host/path](#)
 - SVN protocol (port 3690) – [svn://host/path](#)
 -  SVN over SSH – [svn+ssh://host/path](#)
 - Using private/public keys for authentication

SSH Authentication

- Usually: username/password
- Public Key authentication, use of pairs of keys (public and private)
- Locally, private key in the directory: ~/.ssh
- Remotely, Public key in the file: ~/.ssh/authorized_keys
- During practice, we will generate a pair of keys

Multiple Identities

- File ~/.ssh/config
 - Create a section as follows

```
Host myhost
  Hostname myhost.example.com
  User myusername
  IdentifyFile ~/.sshkeys/onekey
```
 - Access your server:
 - e.g.: `svn co svn+ssh://myhost/`

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LET'S PRACTICE!!!